

CZECHOSLOVAKIA / Organic Chemistry. Natural Substances and
Their Synthetic Analogues.

G-5

Abs Jour : RZhKhim., No 10, 1958, No 32587

= 0.92), was prepared of III by reducing it with LiAlH_4 in ether. The reduction of 300 mg of III with 1.2 g of LiAlH_4 in boiling N-ethylpiperidine (4 hours) resulted in XII, yield 245 mg, melting point 138 to 139° (from diisopropyl ether - acetone), $[\alpha]_D^{20} = -11.9^\circ$ (c = 0.84). A mixture of X and XIII (1 : 1), melting point 103 to 105° (from alcohol), is obtained by the dehydrogenation of XII with Se; trinitrobenzoate, melting point 150 to 152°. The latter was proved by paper chromatography, R_f for X is 0.75 (at the application of 45% aq. H_3PO_4) and R_f for XIII is 0.30. XIV, melting point 187.5 to 189° (from diisopropyl ether - acetone), was synthesized of 300 mg of VI and 83 mg of CrO_3 in glacial CH_3COOH (40 hours, 0°), yield 268 mg. XV, melting point 100 to 101° (from diisopropyl ether), was prepared of 300 mg of XIV and 5 ml of BF_3 esterato (15 min. seasoning), yield

Card 7/8

COUNTRY:	: Czechoslovakia	H-17
CATEGORY	:	
AES. JOUR.	: RZhKhim., No. 22 1959 No.	79509
AUTHOR	: Pitra, J., Kolarova, H., and Cekan, Z.	
INST.	: Not given	
TITLE	: A New System for the Paper Chromatography of Cardiac (Cardiotonic) Glucosides	
ORIG. PUB.	: Collection Czechoslov Chem Commun, 24, no 5, 1011-1013 (1959)	
ABSTRACT	: A translation. See RZhKhim, 1959, no 15, 54532.	
CARD: 1/1		

TROJANEK, J.; STROUP, O.; KAVKOVA, K.; CEKAN, Z.

Alkaloids. III, New alkaloids from Vinca minor L. evergreen. Coll Cz
Chem 25 no.8:2045-2048 Ag '60. (EEAI 10:9)

1. Forschungsinstitut fur Heilpflanzen, Prag.

(Alkaloids) (Vinca minor) (Evergreens)

CEKAN, Z.; PROCHAZKA, V.; HEROUT, V.; SORM, F.

Terpenes. CXV. Isolation of globicin, a guianolide from *Matricaria globifera* (Thunb.) Druce. Coll Cz chem 25 no.10:2553-2558 O '60.
(EEAI 10:9)

1. Research Institute for Natural Drugs, Prague (for Cekan and Prochazka) 2. Department of Natural Products, Institute of Chemistry, Czechoslovak Academy of Science, Prague. (for Herout and Sorm)

(Terpenes) (Globicin) (*Matricaria globifera*)

TROJANEK, J.; KAVKOVA, K.; STROUF, O.; CEKAN, Z.

On alkaloids. IV. Isolation of vincin, a new alkaloid, from *Vinca*
minor L. Coll Cz Chem 26 no.3:867-873 Mr '61. (EEAI 10:9)

1. Forschungsinstitut fur Natur-Arzneimittel, Prag.

(*Vinca minor*) (Alkaloids)

PITRA, J.; CEKAN, Z.

Cardiotonic glycosides. III. Cardenolids of Adonis vernalis. Coll
Cz chem 26 no.6:1551-1558 Je '61.

1. Forschungsinstitut fur Natur-Arzneimittel, Prag.

(Glycosides) (Heart) (Adonis vernalis)

HERMANEK, S.; SCHWARZ, V.; CEKAN, Z.

Steroid derivatives. XII. Chromatography of neutral steroids on a thin aluminum-oxide layer. Coll Cz chem 26 no.6:1669-1679 Je '61.

1. Forschungsinstitut fur naturliche Heilmittel, Prag.

(Steroids) (Chromatography)

TROJANEK, J.; POSPISEK, J.; CEKAN, Z.

Alkyl derivatives of stereoisomers of 2-aminocamphane. Coll Cz Chem 26
no.10:2602-2611 0 '61.

1. Forschungsinstitut für Naturarzneimittel, Prag.

HERMANEK, S.; SCHWARZ, V.; CEKAW, Z.

Methods of separation of natural products. Part 3: Measurement of activity of alumina by means of thin layer chromatography. Coll Cz Chem 26 no.12:3170-3173 D '61.

1. Research Institute for Natural Drugs, Prague.

CEKAN, Z.

- Prague, Collection of Czechoslovak Chemical Communications, Vol 27, No 4, April 1962.
Copyright by the Publishing House of the Czechoslovak Academy of Sciences, 1962.
1. "Polymerography of Substances and Related Substances. Part VIII. Adsorption Processes During the Electroreduction of the Benzyl-Jon Ion," P. JANKA of the Polymerographic Institute of the Czechoslovak Academy of Sciences, Prague, and V. GRIGOROVICH of the Institute of Physicochemical Analytical Methods, at the Czech Academy of Sciences, Warsaw (original-language institutional record not given); pp 779-784 (English article).
 2. "Substitution of Ligands in Macrocyclams. Part IV. Formulation of Periodic Macrocyclams," V. PRIL of the Institute of Inorganic Chemistry at Charles University, Prague; pp 775-781.
 3. "Substitution of Ligands in Macrocyclams. Part V. Reduced Periodic Macrocyclams," V. PRIL of the Institute of Inorganic Chemistry at Charles University, Prague; pp 782-787.
 4. "On Protein Interactions. Part XXII. A Study, by the Light Scattering and Isothermal Titration Method, of the Effect of Conditions Upon the Aggregation of Heat-Denatured Human Serum Albumin," P. KALICKY, P. JANKA and B. GRIGOROVICH, Institute of Macromolecular Chemistry at the Czechoslovak Academy of Sciences, Prague; pp 788-792 (English article).
 5. "On Protein Interactions. Part XXIII. Determination by Three Solvents, of Aggregates of Heat-Denatured Human Serum Albumin," P. KALICKY, P. JANKA and B. GRIGOROVICH, Institute of Macromolecular Chemistry at the Czechoslovak Academy of Sciences, Prague; pp 793-797 (English article).
 6. "A Study, with the Aid of the Extraction Method, of the Complexes of the Heat-Denatured Human Serum Albumin with Amino Acids," J. GRIGOROVICH and V. PRIL of the Nuclear Chemistry Institute, Faculty of Technical and Natural Sciences, Czech Institute of Technology, Prague; pp 800-805.
 7. "Chromatographic Fractionation of Polyphosphates," J. PULICKY and B. JANKA, Institute of Physical Chemistry at the Czechoslovak Academy of Sciences, Prague; pp 816-822.
 8. "Separation Methods for Natural Products. Part I. A Comprehensive Distribution Procedure," V. PRIL, J. PULICKY and B. JANKA, at the Research Institute for Natural Drugs, Prague; pp 823-831 (English article).

CEKAN, Z.

- Index, Collection of Czechoslovak Chemical Communications, Vol. 27, No. 4, April 1962 (continued)
9. "Separation Methods for Natural Products. Part II. Aromatic Diamine Separation and Double Extraction." J. CERNY, J. PIRNA and V. PROSKA, Research Institute of Inorganic Chemistry, Prague; pp 438-442 (English article).
 10. "Synthesis of Compounds in the Group of Representative Alkaloids. Part XIII. The Obtaining of the Alkaloid Compound for the Synthesis of the Nucleic Acid." J. CERNY, J. PIRNA and V. PROSKA, Research Institute of Inorganic Chemistry, Prague; pp 443-447 (English article).
 11. "Synthesis of Compounds in the Group of Representative Alkaloids. Part XIV. On the Synthesis of the Nucleic Acid Compound for the Synthesis of the Nucleic Acid." J. CERNY, J. PIRNA and V. PROSKA, Research Institute of Inorganic Chemistry, Prague; pp 448-452 (English article).
 12. "Chemical Synthesis of Nucleosides. Part I. Isolation of the Nucleoside Compound." J. CERNY, J. PIRNA and V. PROSKA, Research Institute of Inorganic Chemistry, Prague; pp 453-457 (English article).
 13. "On Proteins. Part XVIII. Structure of Proteins Obtained by Peptide Hydrolysis of Cytochrome." J. CERNY, J. PIRNA and V. PROSKA, Research Institute of Inorganic Chemistry, Prague; pp 458-462 (English article).
 14. "Chemical Synthesis of Nucleosides. Part II. The Structure of Nucleosides and of its Derivatives." J. CERNY, J. PIRNA and V. PROSKA, Research Institute of Inorganic Chemistry, Prague; pp 463-467 (English article).
 15. "Analysis of Compounds and Their Analogs. Part XVIII. Synthesis of Nucleosides (2,6-Dimethyl-2-thiouracil) and of their Derivatives." J. CERNY, J. PIRNA and V. PROSKA, Research Institute of Inorganic Chemistry, Prague; pp 468-472 (English article).
 16. "A Note on the Investigation of the Anticancer Activity of 5-(Benzyl-1,4-dioxol-2-yl)-2-thiouracil." J. CERNY, J. PIRNA and V. PROSKA, Research Institute of Inorganic Chemistry, Prague; pp 473-477 (English article).
 17. "Study of the Decomposition of Sodium Thiosulfate Solutions." J. CERNY, J. PIRNA and V. PROSKA, Research Institute of Inorganic Chemistry, Prague; pp 478-482 (English article).

CEKAN, Z.

- Prague, Collection of Czechoslovak Chemical Communications, Vol. 27, No. 4, April 1962 (continued)
37. "Catalytic Determination of Trivalent Arsenic Salts with Pyridate," J. JELÍZEK, B. ROJČEK and J. ŽIVÝ, of the Institute for Analytical Chemistry at Charles University, Prague; pp1031-1033.
38. "Organic Quantitative Analysis. Part XIII. The Micro Determination of Carbon in Organic Substances by Means of Measuring the Electric Conductivity and by Using Oxygen as a Combustion Catalyst," M. ŽIVÝ, J. JELÍZEK and J. ŽIVÝ, of the Institute for Analytical Chemistry at Charles University, Prague; pp 1033-1037.
39. "Methods of Spectroscopic Determination of Natural Substances. Part V. The Determination of Morphine in Extracts from Poppy Shells," P. JELÍZEK, J. JELÍZEK, M. ŽIVÝ and J. ŽIVÝ, Research Institute for Natural Drugs, Prague; pp 1037-1042.
40. "Spectrophotometric Determination of Haptophycin with the Modified Color and Reagents Method," J. JELÍZEK, of the Czechoslovak Academy of Sciences, Prague; pp 1043-1045.
41. "Gas-Fluid Chromatography. The Relation between the Desired Elution Volume and the Molecular Refraction of Organic Compounds," L. B. VODNÝ, of the Institute of Organic Chemistry and Biochemistry, Prague; pp 1045-1048.
42. "Investigation of an Unidentified Component of Food Additives. Part I. Determination of the Nature of the Compound of Compounds," J. JELÍZEK, of the Institute of Organic Chemistry and Biochemistry, Prague; pp 1049-1053.
43. "Toluene Acid Compounds and Their Analogs. Part XVII. Reaction of Toluene and of Its Analogs with Ethylene Carbonate," M. JELÍZEK and J. ŽIVÝ, Institute of Organic Chemistry and Biochemistry, Prague; pp 1053-1058.
44. "Synthesis of 3-Deoxy-erythron," J. ŽIVÝ, Department of Organic Chemistry at the Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague; pp 1058-1062 (English article).
45. "Plant Substances. Part XIII. Tannic Acid, the Bitter Principle of Tannic Acid," M. JELÍZEK, Institute of Organic Chemistry and Biochemistry, Czechoslovak Academy of Sciences, Prague; pp 1062-1066 (English article).

CZECHOSLOVAKIA

CEKAN, Z., Research Institute of Natural Drugs, Prague. (Vyz-
kumny Ustav Prirodnich Leci, Praha.)

Tenth Anniversary of the Foundation of The Research Instit-
ute of Natural Drugs."

Prague, Ceskoslovenska Farmacie, Vol 11, No 10, sec 62, pp 500-
502.

Abstract: The history and the present organization of the
institute are given. It has the following departments: chem-
ical, botanical, pharmacological, biological control and a
farm for the raising of laboratory animals. The most import-
ant work performed at the institute up to now was concern-
ed with ergot, steroids and cardiotonic glycosides.

No references.

1/1

TROJANEK, J.; STROUF, O.; KAVKOVA, K.; CEKAN, Z.

CSSR

Research Institute for Natural Medicines, Prague

Prague, Collection of Czechoslovak Chemical Communications, No 12, 1962,
pp 2801-2807

"On Alkaloids. VI. Vincaminine and Vincinine, Two New Alkaloids of Vinca
Minor L."

CEKAN, Z.

On the 100th anniversary of the work of the Research Institute of
Natural Medicaments. Cesk. farm. 11 no.10:500-502 D '62.

1. Vyzkumny ustav prirodnich leziv, Praha.
(DRUGS)

3
TROJANEK, J.; STROUF, O.; KAVKOVA, K.; CEKAN, Z.

CSSR

Research Institute for Natural Medicines, Prague

Prague, Collection of Czechoslovak Chemical Communications, No 12, 1962,
pp 2801-2807

"On Alkaloids. VI. Vincamine and Vincinine, Two New Alkaloids of Vinca
Minor L."

3

2

PITRA, J.; MOURAL, J.; CEKAN, Z.

CSSR

Research Institute for Natural Medicines, Prague (for all)

Prague, Collection of Czechoslovak Chemical Communications, No 12, 1962,
pp 2985-2988.

"Glycosides Effective for Cardiacs V. Reaction of 14,16 β -Dihydroxy
cardenolides with Thionylchloride, and Constitutional Proof of 16 β -
Hydroxystrophanthidine (Strophadogenin)"

3

TROJANEK, J.; STROUF, O.; KAVKOVA, K.; CEKAN, Z.

On alkaloids. Part 6: Vincaminine and vincinine, two new
alkaloids from Vinca minor L. Coll Cz Chem 27 no.12:2801-2807
D '62.

1. Forschungsinstitut für Natur-Arzneimittel, Prag.

PITRA, J.; MOURAL, J.; CEKAN, Z.

Heart stimulating glycosides. Part 5: Reaction of 14,16 β -dihydroxycardenolide with thionylchloride and proof of the formation of 16 β -hydroxystrophanthidin. Coll Cz Chem 27 no.12:2985-2988 D '62.

1. Forschungsinstitut fur Naturarzneimittel. Prag.

CEKAN, Z.

2

CZECHOSLOVAKIA

PROCHAZKA, V; CEKAN, Z; BATES, R. B.

1. Research Institute for Natural Drugs, Prague (for Prochazka and Cekan); 2. Department of Chemistry and Chemical Engineering, University of Illinois, Urbana, Illinois (for Bates)

Prague, Collection of Czechoslovak Chemical Communications, No 5, 1963, pp 1262-1210

"On Terpenes. CLI. Structure of Globicin, A Guaianolide from Matricaria globifera (Thunb.) Druce."

CZECHOSLOVAKIA

HERMANEK, S; SCHWARZ, V; CEKAN, Z.

Research Institute of Natural Remedies, Prague
(for all)

Prague, Collection of Czechoslovak Chemical Communications,
No 8, 1963, pp 2031-2039

"Methods of Separating Natural Materials VII. The
Relationship between Substance and Solution
Matter in Chromatography of Aluminiumoxyde."

CZECHOSLOVAKIA

PITRA, J; CEKAN, Z

Research Institute of Natural Pharmacy (Forschungsinstitut
für Natur-Arzneimittel), Prague (for both)

Prague, Collection of Czechoslovak Chemical Communications,
No 9, 1963, pp 2303-2309

"Methods of Separation of Natural Materials. VIII. Derivation
from Systems of Alternating Current Separation."

PITRA, J.; REICHELT, J.; CEKAN, Z.

Methods for separation of natural substances, Pt.10.
Coll Cz Chem 28 no.11:3072-3078 N°63.

1. Forschungsinstitut für Natur-Arzneimittel, Prag.

PROCHAZKA, V.; CEKAN, Z.; BATES, R. B.

On terpenes. Pt. 151. Coll Cz Chem 28 no. 5: 1202-1210
My '63.

1. Research Institute for Natural Drugs, Prague, and Department of Chemistry and Chemical Engineering, University of Illinois, Urbana, Illinois.

TROJANEK, J.; STROUF, C.; HOLUBEK, J.; CEKAN, Z.

On alkaloids. Pt.9. Coll Cz Chem 29 no.2:433-446 F '62.

1. Research Institute for Natural Drugs, Prague.

POLAKOVA, A.; CERNAN, Z.

Isolation and structure of cardenolides from *Adonis vernalis*.
Cesk. farm. 14 no.6:307-314 Ag '65.

1. Vyzkumny ustav prirodnich leciv, Praha. Submitted October 29,
1964.

CZECHOSLOVAKIA

CEKAN, Z; TICHA, H; BARTOSK, I

Research Institute for Natural Drugs, Prague - (for all)

Prague, Collection of Czechoslovak Chemical Communications,
No 5, May 1966, pp 2068-2072

"Hydrolysis of esters of androstane derivatives by rat
liver homogenate. Relationship between the rate of hydro-
lysis and structure"

CZECHOSLOVAKIA

JAKUBOVIC, A.; CERNAN, Z.; Research Institute of Natural Drugs
(Vyzkumny Ustav Prirodnich Leciv), Prague.

"The Influence of Testosterone Phenylpropionate (TFP) on the
Incorporation of $HC^{14}OONa$ in Rat Prostate, Semen Pouches, and
M. Levator Ani (M. bulbocavernosus dorsalis) in vitro."

Prague, Czechoslovenska Fysiologie, Vol 15, No 5, Sep 66, p 400

Abstract: Stimulation of intracellular metabolic processes by
TFP was investigated using Na salt of formic acid, which can be
incorporated both in amino acids and in proteins, and then in
nucleic acids. TFP stimulated the incorporation of the formic
salt into the organs that were investigated. 3 Western, 1
Czech reference. Submitted at 14 Days of Pharmacology at Smol-
enice, 14 Feb 66.

1/1

- 57 -

CEKANI, N.

CEKANI, N., Let us harvest sugar beets on time.

Vol. 9, no. 8, August 1955 Tirane, Albania PER BUJQESINE SOCIALISTE

SO: Monthly List of East European Accessions, (EEAL), IC, Vol. 5, No. 10, Oct. 1956

CEKANI, N.

"how to obtain a higher yield in the culture of sugar beets."

PER BUJQESINE SOCIALISTE., Tirane, Albania., Vol. 13, No. 3, Mar. 1959

Monthly list of EAST EUROPEAN ACCESSIONS (EEAI), LC, Vol. 8, No. 7, July 1959, Unclass

CEKANSKI, Adam; GLFNC, Franciszek

Colposcopic examinations of erosions of the vaginal part;
material of II Obstetric and Women's Diseases Clinic of the
Medical Academy in Bytom. Gin. polska 28 no.1:23-31 Jan-Feb
57.

1. Kierownik: prof. dr. B. Stepowski. Bytom, Klinika Poloznicza
i Chorob Kobietych, Al. Batorego 15.
(CERVIX, UTERINE, dis.
erosion of portio vaginalis, colposcopic exam.,
statist. (Pol))

CEKANSKI, Adam

~~Dependence of bleedings in adolescents on blood sodium,~~
Dependence of bleedings in adolescents on blood sodium,
potassium and calcium electrolyte levels. Gin. polska
28 no.3:253-260 May-June 57.

1. Z II Kliniki Poloznictwa i Chorob Kobietych Slaskiej A.M.
im. L. Warynskiego w Bytomiu Kierownik: prof. dr. med.
K. Ryglewicz p. o. Kierownik: dr. med. H. Skalba. Adres: Bytom,
Batorego 15.

(SODIUM, in blood
eff. on bleedings in adolescents in menstruation (Gz))
(POTASSIUM, in blood
same)
(CALCIUM, in blood
same)
(MENSTRUATION, physiol.
dependence of bleedings on blood sodium, potassium &
calcium levels in adolescents (Gz))

KOKOT, Franciszek; CEKANSKI, Adam

Significance of blood transaminase activity in pregnancy & complications, with special reference to pre-eclampsia & eclampsia. Gin. polska 29 no.2:131-138 Mar-Apr 58.

1. Z III Kliniki Chorob Wewnętrznych w Bytomiu Kierownik: prof. dr med. K. Gibinski Z II Kliniki Położnictwa i Chorob Kobiety w Bytomiu Kierownik: prof. dr med. B. Stepowski Bytom, ul. Batorego 15, Klinika Położnicza.

(TRANSAMINASES, in blood
glutamic-pyruvic transaminase in pregn., pre-eclampsia &
eclampsia (Pol))
(PREGNANCY, blood in
glutamic-pyruvic transaminase (Pol))
(ECLAMPSIA, blood in
glutamic-pyruvic transaminase, diag, value (Pol))
(PREGNANCY TOXEMIAS, blood in
glutamic-pyruvic transaminase in pre-eclampsia, diag. value
(Pol))

KOKOT, Franciszek; CEKANSKI, Adam

Excretion of 5-hydroxyindoleacetic acid with urine in pregnancy and in its complications with special reference to pre-eclamptic states. Polski tygod. lek. 14 no.38:1697-1699 21 Sept 59.

1. (Z III Kliniki Chorob Wewnętrznych Śl. A. M. w Bytomiu; kierownik: prof. dr med. Kornel Gibinski oraz z II Kliniki położniczej i Chorob Kobiety Śl. A. M. w Bytomiu; kierownik: prof. dr med. Bronisław Stepowski).

(INDOLEACETIC ACID, rel cpds.) (SEROTONIN, metab.)
(ECLAMPSIA, urine) (PREGNANCY, urine)

CEKANSKI, Adam

Course of labor in older primiparae according to data of the
Second Clinic of Gynecological Diseases and Obstetrics of the
Silesia Academy of Medicine. Gin.polska 30 no.5:527-531
S-O '59.

1. Z II Kliniki Chorob Kobięcych i Położnictwa Śląskiej A.M.
w Bytomiu Kierownik: prof. dr med. Bronisław Stepowski.
(LABOR)

CEKANSKI, Adam; KOKOT, Franciszek

Behavior of glutamic-oxalic-acetic transaminase, glutamic-pyruvic transaminase, lactic dehydrogenase and cholinesterase in maternal and umbilical blood in normal pregnancies and in pregnancies complicated by pre-eclamptic states. Gin. polska 32 no.5:565-572 '61.

1. Z II Kliniki Położnictwa i Chorob Kobietych Śląskiej AM w Bytomiu Kierownik: prof. dr med. B. Stępnowski oraz z III Kliniki Chorob Wewnętrznych Śląskiej AM w Bytomiu Kierownik: prof. dr med. K. Gibiński.

(PREGNANCY blood) (ECLAMPSIA blood) (TRANSAMINASES blood)
(DEHYDROGENASE blood) (CHOLINESTERASE blood) (UMBILICAL CORD blood)

CEKANSKI, Adam; GLENC, Franciszek; JONEK, Jan

Observations on nuclear chromatin in parents of infants with developmental defects. Ginek. pol. 33 no.5:581-584 '62.

1. Z II Kliniki Położnictwa i Chorob Kobietych Śląskiej AM w Bytomiu.
Kierownik: prof. dr med. B. Stepowski.
(ABNORMALITIES) (SEX CHROMATIN)

KOKOT, Franciszek; CEKANSKI, Adam

Role of the study of the activity of gamma-glutamyl-trans-peptidase (GGPT) and leucylaminopeptidase (LAP) in obstetric cases. Pol. tyg. lek. 18 no.48:1799-1803 25 N°63.

1. Z III Kliniki Chorob Wewnętrznych Sl. AM w Katowicach; (kierownik: prof.dr.med. Kornel Gibinski) i z II Kliniki Położnictwa i Chorob Kobiety Sl. AM w Bytomiu (kierownik: prof.dr.med. Bronisław Stepowski).

*

CEKANSKI, Adam

Cholinesterase activity of the blood serum in fetal death,
asphyxia neonatorum and fetal deformities. Ginek. Pol. 35
no.3:367-371 My - Je '64

1. Z II Kliniki Położnictwa i Chorob Kobietych Śląskiej
Akademii Medycznej w Bytomiu (Kierownik: doc. dr. med.
H. Skalba).

CEKIC, J.

Personal responsibility and work discipline in health institutions. p. 1.
(Socijalna i zdravstvena politika, Vol. 9, No. 12, 1956, Beograd, Yugoslavia).

SO: Monthly List of East European Accessions (EMAL) Lc. Vol. 6, No. 8, Aug 1957. Uncl.

JUNG, M.; CEKIC, J.; ZAGAR, Z.

Preservation of live pathogenic bacteria dried in vacuum in a low temperature. Higijena, Beogr. 12 no.2/3:226-230 '60.
(BACTERIA)

CEKIC, J.; DUJANOVIC, P.

Methodological principles in public health planning. Higijena 15
no.1/2:3-15 '63.

KOSUTIC, Zvonimir, dr.; HELLENBACH, Helena, dr.; CEKIC, Jelena, dr.

Vi-antigen in the treatment of typhoid fever. Liječn. vjesn.
85 no.12:1361-1369 D'63

1. Iz Bolnice za zarazne bolesti i Republickog zavoda za
zastitu zdravlja u Zagrebu.

*

BEZJAK, Branko, dr.; BREITENFELD, Vladimir, dr.; CEKIC, Jelena, dr.;
KRSNJAVI, Bogdan, dr.; MAZURAN, Dragan, dr.

Infectious mononucleosis. Result of prospective studies.
Liječn. vjesn. 87 no.7:725-737 J1 '65.

1. Iz Bolnice za zarazne bolesti i Republickog zavoda za
zastitu zdravlja u Zagrebu.

YUGOSLAVIA

Prof Dr Jovan CEKIC and Dr Dragoljub POPOVIC [Affiliation not given.]

"The Sixth Medical Week of Balkan Countries."

Belgrade, Medicinski Glasnik, Vol 17, No 1, Jan 63; p 41.

Abstract : Report of meeting held in May 1962 in Bucharest with participants from Albania Bulgaria Cyprus Greece Rumania Turkey and Yugoslavia. Main problems discussed were venereal diseases, malaria, and epidemiology of staphylococcal infections. Various reports are summarized, e.g. incidence of malaria in above countries in 1961 was 77, 3, ?, 149, 28, 3454 and 57 respectively; insecticide resistance problems are worrisome. Next meeting in Sofia in 1964: tuberculosis, mycoses, rheumatism.

[1/1

CEKIC, N.

Transportation of materials within building enterprises. p. 31.
(Izgradnja, Vol. 11, No. 1, Jan. 1957, Beograd, Yugoslavia)

SO: Monthly List of East European Accessions (EEAL) Lc/Vol. 6, No. 8, Aug 1957. Uncl.

CEKIERA, Janusz (Wroclaw)

Experiences from the construction of narrow multistoried buildings
in the Jaworzno settlement. Przegl budowl i bud mieszk 34
no.8:464-467 Ag '62.

PRINCIP, Borivoj, inz. (Pancevo, Georgi Dimitrova 20a); CEKOVA,
Stanka, dipl. hem., saradnik

Effect of CC_2 on the corrosion of Fe alloys after the CO
conversion and the gas scrubbing. Tehnika Jug 19 no.5:
Hemindustrija 18 no.5:924-930 My '64.

1. Head, Anticorrosion Laboratory, "Pancevo" Chemical
Industry, Pancevo (for Princip). 2. Anticorrosion
Laboratory, "Pancevo" Chemical Industry, Pancevo (for Cekova).

CEKULINA, A.; LASIS, A.; SKARDS, V.; TILAKS, S.; INTAITIS, E.;
KELTIS, E.; SALMANIS, A.; REINIKOVS, I.; KARKLINS, J.;
ABOLINS, J.; KULA, P.; TIMSANS, S.; JESPERINS, L.;
FRUSIS, R.; KLAVINS, E., red.

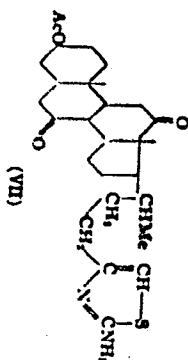
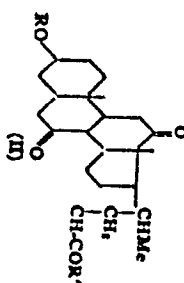
[Overall mechanization of dairy farms] Piena lopu farmu
kompleksa mehanizacija. Riga, Latvijas Valsts izdev-
nieciba, 1964. 309 p. [In Latvian] (MIRA 18:7)

CELADNIK, M.

CA

10

Bile acids. II. Preparation of 2-amino-4-(3-acetoxy-7,12-dioxo-23-oxocarbonyl)thianole. M. Celadnik, B. Decobler, J. Hadacek, J. Michalek, and H. Schick, *Collection Czechoslov. Chem. Commun.*, 15, 972-9 (1951) (in German); *Chemop. Critica Libellula* 29, 120 (1949).—The present literature contained no work on the synthesis of a thiazole ring in the mol. Me 3-acetoxy-7,12-dioxocarbonyl (I)



II, R = Ac, R' = OMe) was prepared from 3-acetoxy-7,12,24-trioxo-25-oxo-23-homocyclane (II, R = Ac, R' = CH₃), which was made from the known 3-acetoxy-7,12,24-trioxo-25-oxo-23-homocyclane (II, R = Ac, R' = CH₃), II (570 mg.) in 20 ml. EtOH was heated to boiling 1 hr. with 250 mg. KOH in 15 ml. H₂O, dtd. with H₂O, the EtOH removed in vacuo, the residue dissolved in a large amt. of H₂O, covered with a layer of Et₂O, shaken as an emulsion of

Over

~~GAHADNIK, M.~~
CEHADNIK, M

5

Synthesis of α -halo- and α -dihalomethyl ketones derived from 3 α -acetoxy-7,12-dioxocholanic acid. J. Hadráček and M. Čeladník (Masarykova Univ., Brno, Czech.). *Chem. Listy* 47:1532-3 (1957). --Treating with III in an ether soln. (I) of 3 α -acetoxy-7,12,21-trioxo-25-diazo-25-homocholane (prepd. from 2 g. 3 α -acetoxy-7,12-dioxocholanic acid according to Hadráček and Michalský, C.A. 46, 3062d) gave 800 mg. 3 α -acetoxy-7,12,21-trioxo-25-bromo-25-homocholane (II), m. 150°. Treatment of the diazoketone prep'd. from 1 g. I with Br in CCl₄ gave 3 α -acetoxy-7,12,21-trioxo-25,25-dibromo-25-homocholane (III) (600 mg.), m. 174°. Similar reaction with iodine gave 700 mg. 3 α -acetoxy-7,12,21-trioxo-25,25-diiodo-25-homocholane (IV), m. 157°. Reduction of 400 mg. II with Zn in AcOH gave 300 mg. 3 α -acetoxy-7,12,21-trioxo-25-homocholane (V), m. 171°. The same comp'd. was obtained also by Zn reduction of III and IV. Treating 100 mg. V with 200 mg. NH₄OH.HCl and 700 mg. anhyd. AcOK in EtOH gave 3 α -hydroxy-7,12,21-tris(oximido)-25-homocholane, m. 256-8° (decompn.) (from Et₂O and then MeOH).
M. Hadráček

~~PHILIP, CELADNIK, M.~~
CELADNIK, M.

Local aneshtics. XIII. Basic substitution...
...have been prepared and pharmacologically tested.
The compounds are structurally related to Fentanyl and
by substitution in the basic part of the molecule.
...with a tetra... group...

NOVACEK, L.; PALAT, K.; CELADNIK, M.; MATUSKOVA, E.

Antitubercular agents. III. Preparation of some derivatives in the nucleus of substituted isonicotinic acid. Cesk. farm. 11 no.2:76-79 F '62.

1. Katedra anorganicke a organicke chemie farmaceuticke fakulty,
Bratislava a Ustav tuberkulozy, Bratislava.
(ISONIAZID rel cpds)

PALAT, K.; CELADNIK, M.

" α -aminoaklylation" by H. Hellmann and G. Optiz. Reviewed by
K. Palat and M. Celadnik. Chem. zvesti 16 no.8:643 Ag '62.

RADA, B.; BLASKOVIC, D.; PALAT, K.; CELADNIK, M.

Screening of antimetabolites inhibiting virus multiplication.
IV. Failure of basic propiophenones to inhibit virus multiplication.
Acta virol. 7 no.3:277-278 My '63.

1. Institute of Virology, Czechoslovak Academy of Sciences, Bratislava
and Department of Anorganic and Organic Chemistry, Pharmaceutical
Faculty, Bratislava.

(ANTIMETABOLITES)	(VACCINIA VIRUS)	(ENCEPHALITIS VIRUSES)
(NEWCASTLE DISEASE VIRUS)	(PROPIOPHENONES)	(ANTIVIRAL AGENTS)

NOVACEK, Lubor; PALAT, Karel; CELADNIK, Milan

Pyrazine chemistry. Chem listy 57 no.3:298-328 Mr '63.

1. Katedra anorganické a organické chemie, Farmaceutická fakulta, Universita Komenského, Bratislava.

CELADNIK, M., doc. Dr. Mr. CSc., (Kalinciakova 8, Bratislava), PALAT, K.;
NOVACEK, L.; MATUSKOVA, E.; KUBALA, E.; PAVLAS, M.

Antitubercular agents. Part 4. Cesk. farm. 14 no.6:303-307 Ag '65.

1. Katedra anorganicke a organicke chemie farmaceuticke fakulty
Univerzity Komenskeho, Bratislava, Lecebna tuberkulosity, Kostelec
n. Cernymi Lesy, Lecebna tuberkulosity, Janov u Mirosova a Vyzkumny
ustav veterinarniho lekarstvi, Brno. Submitted November 23, 1964.

CELADNIK, M.

"Introduction to ethynyl and alkyl groups in organic compounds"
by W.Ziegenbein. Reviewed by M.Celadnik. Chem zvesti 19 no.2:
144-145 '65.

CELADNIK, M.; PALAT, K.; VRBA, C.

Local anesthetics from the group of basic propiophenones. In German. p. 51.

ACTA FACULTATIS PHARMACEUTICAE BRUNENSIS ET BRATISLAVENSIS. Brno. Czechoslovakia.
Vol. 1, 1958.

Monthly list of East European Accessions (EEAI) LC, Vol. 9, no. 1, January 1960.

Uncl.

RUMANIA / Diseases of Farm Animals. Diseases Caused by
Viruses and Rickettsiae.

R-2

Abs Jour : Ref Zhur - Biol., No 17, 1958, N 78960.

Author : Calan, B.i. Haroviuc, S.; Poltochi, M.

Inst : Not given

Title : Combination of an Epizootic of a Contagious Chronic
Respiratory Disease and Fever of Poultry.

Orig Pub : Probl. zootehn. si veterin., 1958, No 1, 63-64.

Abstract : No abstract given.

Card 1/1

CELAN, B.; HANES, A.; HAROVIUC, S.; HRAPCIUC, A.

Tetrathyridium in turkeys. Comunicarile AR 12 no.5:571-574
My '62.

1. Laboratorul veterinar regional, Focsani. Comunicare prezentata de I. Popovici, membru corespondent al Academiei R.P.R. .

BALLY, R.J., candidat stiinte tehnice; CELAN, B., fizician

Determining the volumetric gravity of soils with the aid of gamma radiations. Meteorologia hidrol gosp 7 no.3:176-186 '62.

CELAN, M.

New contributions to the knowledge of the flora and vegetation of the
Black Sea, p. 77

ANALELE. SERIA STINTELOR NATURII. Bucuresti, Romania.
Vol. 7, no. 17, 1958

Monthly list of European Accessions (EEAI) LC, Vol. 8, no. 8, Aug. 1959

Uncl.

CELAN, M.

On the affinity between Lyngbya Nordgaardii Wille and Lyngbya epiphytica Hieron. p. 109.

ANALELE SERIA STINTELOR NATURII. Bucuresti, Rumania. Vol. 7, no. 18, 1958.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, no. 9, Sept. 1959.
Uncl.

CELAN, M.

CHELAN, Mariya [Celan, Maria]

Algal vegetation in winter at the coast of Agigea (Black
Sea coast of the Rumanian People's Republic). Bot.zhur. 44
no.11:1605-1612 N '59. (MIRA 13:4)

1. Morskaya zoologicheskaya stantsiya v Adzhidzhe, Rumynskaya
Narodnaya Respublika.
(Black Sea--Algae)

CELAN, Maria

Notes on the Phaeophyceae brown algae on the Rumanian littoral
of the Black Sea. Studii cerc biol s. bot 16 no. 1:31-45 '64.

1. "Prof. Ioan Borcea" Institute of Marine Zoology, Agigea.

CELANSKY, V., MUDr.

T-wave according to membranous theory. Cas. lek. cesk.
95 no.4:93-103 27 Jan 56.

1. Ze srdecniho odd. KUNZ Praha. EKG krivky vetsinou ve vsech
svodech, zejména v obtiznych pomerne svodech dorsalnich, poridili
laboranti srd. odd. KUNZ O. Parisek a B. Hepplerova. Schematicke
obrazky kresila MUC O. Krikavova.

(ELECTROCARDIOGRAPHY,

T-wave, membranous theory)

CCLAP, M.B.

4

Synthesis of tetrahydroquinoline-3-alkylcarboxylic acids.
I. Synthesis of 2-carboxy-4-hydroxy-3-quinolinealkyl-
carboxylic acids. *George Stefanowicz and Mienko B. Celko*
(Univ. Belgrade). Rec. trav. chim. 72, 105-109 (1953)
(English).—Triethyl esters of α -oxalylcarboxylic acids (I),
 $\text{EtO}_2\text{C}\cdot\text{COCH}(\text{CO}_2\text{Et})(\text{CH}_2)_n\text{CO}_2\text{Et}$, were condensed with
 PhNH_2 and the anils (II), $\text{C}_6\text{H}_5\text{N}:(\text{CO}_2\text{Et})_2\text{CH}(\text{CO}_2\text{Et})_2$,
 $(\text{CO}_2\text{Et})(\text{CH}_2)_n\text{CO}_2\text{Et}$, thus obtained were cyclized to 2-
 carboxy-4-hydroxy-3-quinoline alkylcarboxylic acids (III).
 The esters of III as well as the II could not be prepd. in a
 pure state of analysis. The III acids are sol. in EtOH, insol.
 in CH_2 , and sparingly sol. in hot H_2O ; when heated above
 their m. p. they decarboxylate to 4-hydroxy-3-quinoline-
 alkylcarboxylic acids. Attempt to use the esters of formyl-
 dicarboxylic acids instead of I did not lead to quinolines but
 to lactams. Et ethoxylsuccinate (I, $n = 1$) was prepared
 (cf. C.A. 5, 3240) from Et succinate (0.34 mole). Et oxalate
 (0.34 mole), K (0.34 mole), abs. EtOH (40 g.), and 200 cc.
 anhyd. Et_2O in 80% yield. Et α -ethoxylglutarate (I,
 $n = 2$) was prepared (cf. C.A. 6, 1749c) in 77% yield from Et
 glutarate (50 g.). Et oxalate (46.8 g.), Na (7.3 g.), abs.
 EtOH (14.7 g.) and 30 cc. anhyd. EtOH (77% yield). The
 prepn. of the esters I ($n = 3$ to 7) according to Goldberg,
et al. (C.A. 41, 3781a) is described (yields 62–85%). Et
 ethoxylsuccinate anil (II, $n = 1$) was prepd. from 0.25 mole
 of I ($n = 1$) and freshly distd. PhNH_2 , 5 hrs. at 0° and one
 week at room-temp. The H_2O was sep'd., the residue dis-
 solved in 100 cc. of Et_2O , dried with Na_2SO_4 and the solvent
 evapd. at room temp. *in vacuo* to yield 76.5 g. of the anil,
 viscous red oil. The esters II ($n = 2$ to 7) were prepd. the

same way. The esters were ring-closed without further puri-
 fication: To paraflin oil (300 cc.) heated to 240°, was added
 with stirring 19 g. of II ($n = 1$). The EtOH formed was
 distd. during the addn. The flask was cooled rapidly with
 stirring. The red, sticky mass was filtered, and washed with
 petroleum ether to yield 10.5 g. of Et 2-carboxy-4-hydroxy-
 3-quinolinesuccinate, pale yellow crystals, m. 181° (from C-
 H_2). The free acid was obtained by hydrolysis of 2 g. of
 the crude ester in 10 cc. of 10% NaOH, m. 221° (from H_2O),
 pale yellow needles. The following esters and acids (III)
 were obtained in a similar way: 2-carboxy-4-hydroxy-3-quin-
 olinopropionic acid, pale yellow, m. 204° (from H_2O), from
 the Et ester (yield 96%), m. 163° (from EtOH). 2-Carboxy-
 4-hydroxy-3-quinolinobutyric acid, pale yellow, m. 230° (from
 H_2O) from the Et ester (yield 50–75%), m. 153° (from 90%
 EtOH). 2-Carboxy-4-hydroxy-3-quinolinomaleric acid, white
 crystals, m. 227° (from H_2O), from the Et ester (yield 74-
 90%), m. 128° (from 96% EtOH). 2-Carboxy-4-hydroxy-3-
 quinolinicaproic acid, yellow, m. 225° (from EtOH) from
 the Et ester (yield 59–80%), m. 04–0° (purified by chroma-
 tography on Al_2O_3 with CH_2 solvent, EtOH eluate). 2-Car-
 boxy-4-hydroxy-3-quinolinheptic acid, white crystals, m.
 210° (from H_2O), Et ester, m. 78–80° (by chromatography as
 above). 2-Carboxy-4-hydroxy-3-quinolinicaproic acid yellow
 needles, m. 190° (from H_2O), Et ester (yield 74–8%),
 m. 75–7° (purified by chromatography). The last 3 acids were
 also purified by dissolving several times in dil. NH_4OH ,
 filtering and pptg. with HCl. All the Et esters are pale
 yellow to yellow.

Gregor H. Riesser

Gregor H. Riessen

10

CELAP, Milenko B.; RADIVOJEVIC, Zivota M.

A new method for the separation of the elements of the analytic group I by the paper chromatography. Gl.hem.dr. 23 /24 no.1/2: 59-66 '58/59. (REAY 9:5)

1. Faculty of Science, Institute of Chemistry, Beograd.
(Methanol) (Silver) (Nitric acid) (Thallium)
(Chromatography) (Lead) (Mercury)

CELAP, Milenko B.; JANJIC, Tomislav

Determination of small amounts of bromides and iodides on impregnated filter paper. Glas Hem dr 25/26 no.1/2:125-131 '61.

1. Faculty of Science, Institute of Chemistry, Beograd.

(Bromides) (Iodides)

JANJIC, Tomislav J.; CELAP, Milenko B.

Determination of small amounts of arsenates, phosphates, chromates, copper and uranium on impregnated filter paper. Glas Hem dr 25/26 no.1/2:133-139 '61.

1. Faculty of Science, Institute of Chemistry, Beograd.

(Arsenates)	(Phosphates)	(Chromates)
(Copper)	(Uranium)	

CEIAP, Milenko B.; JANJIC, Tomislav J.; UROSEVIC, Slavoljub Z.

Influence of the quantity of water in ethanol upon the
R_f-values of certain inorganic salts. Glas Hem dr 25/26
no.5/7:393-400 '60/'61.

1. Prirodno-matematički fakultet, Hemijski institut, Beograd.

CELAP, Milenko B.; JANJIC, Tomislav J.; SPANOVIC, Z.F.

Determination of small quantities of lead, zinc, cadmium, and iron on the paper prepared with nickel-ferrocyanide. Glas Hem dr 25/26 no.8/10:527-529 '60/'61.

1. Faculty of Science, Institute for Chemistry, Beograd.

JANJIC, Tomislav J.; CELAP, Milenko B.; SPANOVIC, Z.F.

Determination of small quantities of mercury, silver, platinum, palladium, and gold on the paper prepared with cadmium sulfide. Glas Hem dr 25-26 no.8/10:531-534 '60/'61.

1. Faculty of Sciences, Institute of Chemistry, Beograd.

CELAP, Milenko B.; JANJIC, Tomislav J.; STOJKOVIC, Dejan

Determination of small amounts of elements by combining partition and precipitation paper chromatography. Glas Hem dr 27 no.5/6: 279-282 '62.

1. Faculty of Sciences, Institute of Chemistry, Beograd.
2. Clan uredivackog odbora, "Glasnik Hemijskog drustva, Beograd" (for Celap).

JANJIC, Tomislav J.; CELAP, Milenko B.; STOJKOVIC, Ljubisa

Semiquantitative determination of ion microamounts by visual colorimetry of the spots obtained with the aid of partition paper chromatography. Pt. 1. Glas Hem dr 27 no.5/6:283-288 '62.

1. Faculty of Sciences, Institute of Chemistry, Beograd.

CELAP, Milenko B., dr prof.; JANJIC, Tomislav J.; RADANOVIC, Dusan

Semiquantitative determination of small quantities of mercury, palladium, lead, copper, cadmium, uranium, iron, and zinc by the precipitation paper chromatography. Glas Hem dr 28 no. 1: 19-25 '63.

1. Faculty of Sciences, Institute of Chemistry, Beograd.

JANJIC, Tomislav J.; CELAP, Milenko B.; ZAKUBICA, Leposava; RADNOVIC,
Ljiljana D.

Semiquantitative determination of microamounts of ions by
visual colorimetry of spots obtained with the aid of partition
paper chromatography. Pt. 2. Glas Hem dr 28 no.3/4:201-204 '63

1. Faculty of Natural Sciences and Mathematics, Chemical Institute,
Belgrade.

CELAREK, I.

Pharmaceuticals, Tinctures
Thymus 17

Essential oils present in the herbs of *Thymus* in Poland
I. Turowska, I. Celarek, and K. Smolén (Z. Zakładu Bot.
Patin. Akad. Med., Kraków, Poland). *Polish Acad.
Umiejętności, Prace Kom. Nauk Farm., Dissertationes*
Pharm. 3, 129-48 (1951) (French summary). Six specimens
of herbs from a government-owned plantation in Zaklików
were studied. The concn. of oil in the plants, detd. by the
method of Tusting and Coukin, varied from 0.63-2.5%.
The distd. oil had d. 0.9030-0.9333, optical rotation
-0.43°-+1.75°, n_D^{20} 1.418-1.521, phenol content 39.5-46%
(by the method of Gildemeister) or 35.39-38.49% (by the
method of Kremer and Schreiner), and contained linalool
and borneol 11.22-28%. Several other species of *Thymus*
herbs were studied with no gross differences. The dif-
ferences that were noted were due only to the parts of the
plants studied. L. J. Piotrowski

CHERUB, Irene, MC

From the Opole Branch of the Polish Pharmaceutical Society.
Farmacja Vol 20 no. 13/14:551 J1 '64.

CELARY, M; SZURA, T.; GLOGOCZOWSKI, J.

The IN-4 chromatographic analyser. Biuletyn. P. 9

NAFTA. (Instytut Naftowy) Krakow, Poland, Vol 15, No. 10, Oct. 1959

Monthly list of East European Accession (EEAI) LC., Vol. 9, No. 1, Jan. 1960

Uncl.

CELEBIC, Dorde

Occurrences of the black Guttensteiner limestones in the environs
of Bosanski Novi and Budimlic Japra. Geol glas BiH no.6:77-83 '62.

VLAHINIC-DEKIC, K.; CELEBIC, D.

Ellipsactinic limestones east of Prozor in Hercegovina. Geol glas
BiH no.6:103-106 '62.

CELEBIC, Dordo

Sedimentary deposits of iron and manganese ores in the diabase-hornstone formation of Northwestern Hercegovina. Geol glas BiH 7:145-159 '63.

CELEBIC, Dorde

The Han Bulog limestones near the village of Crkvine, northwestern
Bosnia. Geol glas BiH 9:21-31 '64.

1. Submitted April 6, 1964.

KHAWANI, Joon; H. J. J. Oubono; J. H. H. J. Joon

note of production volume in mechanical assembly. (Korea article
8 no. 4:26-30) (Korea article)

CELEBRITY
Surnames Given Names

Country: Yugoslavia

Academic Degrees: [not given]

Affiliation: "Istra", Combined Enterprise for Fishing, Processing, and
Selling of Fishes, Veterinary Inspection ("Istra", Kombinat
za ulov, preradu i prodaju ribe, Veterinarska inspekcija), Pula
Source: Blegade, Veterinarski glasnik, No 7, 1961, pp 593-594.
Data: "On Some Problems of Veterinary Inspection in Fish Industry Plants."

CELECHA, Z.; CUTH, V.

Meteor statistics. In English. p. 305

PUBLICATIONS. (Čekoslovenska akademie ved. Astronomický ústav.) Praha, Czechoslovakia, No. 34/42, 1958.

Monthly List of East European Accessions (MEAI), LC, Vol. 8, no. 11, Nov. 1959
uncl.

CELECHOVSKY, J.
CA

A sensitive reaction of cobalt and copper with antipyrine. A. Okáč and J. Celechovský, *Chem. Listy* 43, 7-8(1949).—To a neutral soln. to be tested add 3 drops N HCl, 3 drops CHCl₃, 1 drop 5% KSCN, and 1 drop of 10% aq. soln. of antipyrine. In the presence of Co, CHCl₃ develops a blue, with Cu violet to brown-violet coloration. M. Hudlický

CA CELECHOVSKY, J.

Evaluation of newer tests for copper. Arnolt Okáč and Jaroslav Celechovský (Masaryk Univ., Brno, Czech). *Chem. Listy* 45, 52-4 (1951).—Cu develops orange to violet-brown color when treated with an acidic mixt. of oxypyrene and KSCN (CHCl₃ is added to ext. the complex). Hg, Co, Fe, Ti, and Au interfere. Phenolphthalein prepd. by the reduction of phenolphthalein in NaOH with Zn gives pink to red color with Cu in the presence of NH₄Cl and NH₄ClO₄. Au, Hg, Co, NH₄, SO₄²⁻, and SiO₄²⁻ interfere. Benzidine and KBr give a blue color with Cu interfered with by oxidants, Au^{III} and Fe^{III}. The reaction of Cu (and Co and Ni) with 1,2-diaminoanthraquinone-3-sulfonic acid (blue color) is disturbed by Hg, Mg, and NH₄. Diphenylcarbohydrazide reaction of Cu (red-violet color of the benzene layer) is disturbed by oxidants, Hg, Co, Cd, Fe^{III}, and NH₄. 2-Nitroso-1-naphthol-4-sulfonic acid gives an orange color with Cu disturbed by Co, Ni, and Fe. M. Hudlický

1937

✓ Photometric microdetermination of silicic acid. Jaroslav
Čelechovský (Přírodovědecká fak., Brno, Czech.). *Chem.
Listy* 48, 591-5 (1954).—An accurate photometric detn. of
SiO₂ is based on the formation of silicomolybdic acid and
on its reduction to molybdenum blue. A neutral soln. is
dild. to contain 0.001-0.28 mg. SiO₂ in 1 ml., treated with a
5% soln. of (NH₄)₆Mo₇O₂₄·4H₂O, acidified, after addn. of
1-2 drops of 0.05% soln. of Tropaeolin OO with 2N HCl to a
red color, treated, after 3 min. with 2 ml. 3M citric acid,
dild. after 3 min., mixed with 0.12 ml. 0.07N SnCl₂, dild.,
and measured at $\lambda = 780 \text{ m}\mu$. Errors up to 3.7% were
found in detg. 60 γ SiO₂. M. Hudlický

9-20-54

329 Photometric study of the colour reaction
between phenanthrene and ferric ions
NAME: [illegible]
Phenanthrene: 1,2,3-trimethylbenzene

1,2,3-trimethylbenzene
[illegible]

23. Photometric determination of hydrogen peroxide. J. Cechovsky, E. Krut' and V. Krejčí. *Chem. Listy*, Brno, Czechoslovakia, *Českosl. Farm.*, 1957, 8 (2), 103-105. — A stable coloured complex is formed by the oxidation of Fe^{2+} with H_2O_2 in the presence of salicylic (I) or sulphosalicylic acid (II). The extinction is measured between 490 and 533 m μ . Solutions of pH 2 to 2.2, $5 \times 10^{-3} M \text{ Fe}^{2+}$ and $0.1 M$ I or II are recommended. Concentrations of 15 to 250 μg of H_2O_2 in 5 ml can be reliably determined. Reducing or oxidising agents interfere. The method was successful in the determination of metal peroxide, e.g., MgO_2 . J. Cechovsky

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MT

CZECHOSLOVAKIA / Analytical Chemistry. Analysis of Inorganic Substances. E-2

Abs Jour: Ref Zhur-Khimiya, 1958, No 17, 57211.

Author : Celechovsky J., Holer J.
Inst : ~~NOT GIVEN~~
Title : Photometrical Determination of Fluorides.

Orig Pub: Chem. listy, 1957, 51, No 11, 2129-2131.

Abstract: Degree of decolorization of the red solutions containing complex of antipyrène (Ant) and Fe^{3+} with ions of F^- has been investigated. It was found that the greatest decrease in optical color density of colored solution takes place at 2 pH and at the antipyrène concentration of 4×10^{-2} M. This change occurs as a result of an interaction between the $\text{Fe}_2\text{Ant}_3^{6+}$ and the F^- ions with the formation of a colorless Fe F^{2+} complex. Photometrical

Card 1/3

CZECHOSLOVAKIA / Analytical Chemistry. Analysis of
Inorgan Substances.

E-2

Abs Jour: Ref Zhur-Khimiya, 1958, No 17, 57211.

Abstract: determinations of F^- are made, therefore, possible by utilizing the degree of decolorization. This has been done under similar conditions ($465m\mu$), in the F concentration range of 35-300 γ , using 25 cc of the final solution, and obtaining results whose relative error varied between -3.1 and +4.6%. The optimum concentration of Fe^{3+} investigated was determined from samples containing: 10.75×10^{-6} , 5.7×10^{-6} , and 3.15×10^{-6} M. The correspondingly stronger reducing agents and compounds that form stable complexes with either Fe^{3+} or F^- were found detrimental and interfering. Presence of Cl^- (in

Card 2/3

CZECHOSLOVAKIA / Analytical Chemistry. Analysis of E-2
Inorganic Substances.

Abs Jour: Ref Zhur-Khimiya, 1958, No 17, 57211.

Abstract: quantities 200 times greater than that of Fe^{3+})
can be tolerated.

Card 3/3

27

CELECHOVSKY, J.

Distr: 482c(3)

3
2 May
1

Study of conditions in photometric determination of fluorides. J. Celechovsky (Univ. Brno, Czech.). *Acta fak. pharm. v. 1, 59-80 (1958)*.—Basic studies which deal with conditions necessary for forming 3 colored complexes of fluorides (rhodanides, sulfosalicylic acid, and pyrocatechol-3,5-disulfonic acid) with Fe^{+++} are presented. The optimum pH for a detn. is given. J. M. Zr--

U
V

9-9

INSTRUMENTS AND EQUIPMENT

CZECHOSLOVAKIA

PESAK, M.; KOPECKY, F.; CELECHOVSKY, J.; Chair of Physical Chemistry, Pharmaceutical Faculty, Comenius University (Katedra Fyzikalni Chemie Farmaceuticke Fakulty UK), Bratislava.

"Cryoscopic Determinations with Thermistors of Czechoslovak Origin."

Prague, Ceskoslovenska Farmacie, Vol 15, No 6, Jul 66, pp 287-290

Abstract [Authors' English summary modified]: Czechoslovak thermistors Negohm 12 NR 15 are described and their development is discussed. The accuracy of the instruments is up to 0.0001°C , variance of individual measurements, caused by first cooling the whole system, is about $+0.0007^{\circ}\text{C}$. The relative error of measurement did not exceed 0.2%, at the freezing point depression of $\Delta T = 0.4^{\circ}\text{C}$. 4 Figures, 2 Tables, 15 Western, 5 Czech, 1 Russian, 1

Hungarian reference. (Manuscript received 10 Mar 66).

1/1

C. A. CELEDA, V.

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Picture frame formation in blackheart malleable iron. J. H. Celeda and Marie Kyslavá. *Hutnické Listy* 5, 221-7 (1950).—A perlitic edge always occurs in all castings made of the same melt even if these are annealed in different pots; however, parts annealed in the same pot may show different behavior if they originate from different melts; the thickness of the bright edge of a fracture is the same as the metallographically detd. one and both are equal to the thickness of the scale-free surface layer; while the core of picture frame free parts is a pure ferrite, parts with a decarburized edge retain a partly perlitic structure in the core after the annealing process. C. and R. conclude that the intensity of the inclination of the steel to become malleable has a decisive influence. All factors lengthening the incubation period, e.g. Cr content, increased FeO content in solid solution, H content, presence of noncompensated S, bring about picture frame formation, while all factors which shorten the incubation times, e.g. increase of the Si content; inoculation, etc., act against decarburization of the edges. There are indications that the same can be said about the formation of an oxidized surface layer (clay fracture). This seems to represent a second stage of picture frame which develops during longer and more intensive oxidation.

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The importance of Heyrovsky's polarographic methods
for the development of chemical industry. Jiri Celesta.
Chem. Průmysl 1(26), 7-8(1951).—A review. J. Miska

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